# Maths (Higher)

# Year 9 Assessments

# May: End of Year

## Topics Areas to Revise

**Half Term 1**

- Rounding
- Indices (Multiply/Divide & Brackets)
- Indices (Negative Powers)
- Indices (Fractions)
- Standard Form
- Multiplying with Decimals
- Dividing Integers Resulting in a Recurring Decimal
- Recurring Decimal (Converting to a Fraction)
- Constructing Bisectors
- Constructing 2D shapes
- Loci
- Parallel Lines
- Parallel Lines Problems
- Angles in Polygons
- Interior & Exterior Angles of Polygons
- Angle Problems (Extension Activities)

**Half Term 2**

- Prime Factorisation
- HCF & LCM using Prime Factorisation
- Read & Write Expressions, Equations & Inequalities
- Simplifying Expressions
- Expand Double Brackets
- Factorise Linear Expressions
- Factorise Quadratics (Including Two Squares)
- Factorise Quadratics - Harder
- Fractions and Mixed Numbers (Four Operations)
- FDP
- Percentage of an Amount
- Percentage Increase & Decrease
- Percentage Change
- Original Amount
- Simple Interest
- Compound Interest
- Depreciation

**Half Term 3**

- Finding the Area & Perimeter
- Circumference of a Circle
- Area of a Circle
- Area & Perimeter of Composite Shapes
- Area of a Sector
- Arc Length and Perimeter of a Sector
- Surface Area
- Volume
- Pythagoras Theorem
- Solving 1 & 2 Step Equations
- Equations - Unknowns on Both Sides
- Equations - Brackets
- Construct and Solve Equations
- Changing the Subject of Simple Formula
- Solving Linear Inequalities
- Substitution
- Trial & Improvement

**Half Term 4**

- Plot and Sketch y = mx + c (including y Implicit)
- Equation of a Line
- Find Equation of a line
- Identify Parallel Lines
- Find Equation of a line
- Plotting Quadratics
- Bearings
- Rotation (Including Describing)
- Reflection (Including Describing)
- Translation with Vectors (Including Describing)
- Enlargement - Positive Scale Factor (Including Describing)
- Enlargement - Negative Scale Factor (Including Describing)
- Congruent & Similar Shapes

**Half Term 5**

- Theoretical Probability
- Finding Missing probabilities
- Listing Outcomes
- Experimental Probability
- Calculating Probabilities of Two or More Events
- Venn Diagrams
- Set Theory
- Averages & Spread
- Averages from Frequency Tables
- Averages from Grouped Frequency Tables
- Nth Term
- Quadratic Nth Term

The full revision list along with some extra notes will be shared on your child's year group page and individual maths class page.

Microsoft Teams

**KS3 Maths**

## Skills to be assessed

Use and apply standard techniques:

- Accurately recall facts, terminology, and definitions
- Use and interpret notation correctly
- Accurately carry out routine procedures or set tasks requiring multi-step solutions.

Reason, interpret and communicate mathematically:

- Make deductions, inferences and draw conclusions from mathematical information
- Construct chains of reasoning to achieve a given result
- Interpret and communicate information accurately
- Present arguments and proofs
- Assess the validity of an argument and critically evaluate a given way of presenting information.

Solve problems within mathematics and in other contexts:

- Translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes
- Make and use connections between different parts of mathematics
- Interpret results in the context of the given problem
- Evaluate methods used and results obtained
- Evaluate solutions to identify how they may have been affected by assumptions made.

## Resources to help revision

MyMaths

https://www.mymaths.co.uk/

MATHSDIY

https://www.mathsdiy.com/

mr barton maths

https://www.mrbartonmaths.com/exams/gcse/gcse-maths-takeaway.html

## How this will be assessed and graded?

- Two Assessments (1st Paper will be non-calculator / 2nd Paper will be calculator)
- Both papers to be sat in the week beginning – Monday 27th May
- The duration for each paper will be 60 minutes

- Equipment: Calculator, Pen(s), Pencil(s), Ruler, Compass, Protractor - (Rubber, Pencil Sharpener)